Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims.

1-9. (Canceled)

10. (Original) An isolated CAPP polypeptide having an amino acid sequence at least 95% identical to a sequence selected from the group consisting of:

(a) amino acids from about -32 to about 365 in SEQ ID NO:2;

(b) amino acids from about -31 to about 365 in SEQ ID NO:2;

(c) amino acids from about 1 to about 365 in SEQ ID NO:2;

(d) the amino acid sequence of the CAPP polypeptide having the amino acid sequence encoded by the cDNA clones contained in ATCC Deposit No. 97729; and

(e) the amino acid sequence of an epitope-bearing portion of any one of the polypeptides of (a), (b), (c) or (d).

11. (Canceled)

12. (Original) An isolated antibody that binds specifically to a CAPP polypeptide of claim 10.

13-15. (Canceled)

16. (New) An isolated polynucleotide comprising a nucleotide sequence encoding amino acids 1 to 365 of SEQ ID NO:2.

17. (New) The isolated polynucleotide of claim 16, comprising nucleotides 329 to 1423 of SEQ ID NO:1.

18. (New) The isolated polynucleotide of claim 16, comprising a nucleotide sequence encoding amino acids -31 to 365 of SEQ ID NO:2.

19. (New) The isolated polynucleotide of claim 18, comprising nucleotides 236 to 1423 of SEQ ID NO:1.

20. (New) The isolated polynucleotide of claim 18, comprising a nucleotide sequence encoding amino acids -32 to 365 of SEQ ID NO:2.

21. (New) The isolated polynucleotide of claim 20, comprising nucleotides 233 to 1423 of SEQ ID NO:1.

22. (New) The isolated polynucleotide of claim 16, which is DNA.

23. (New) The isolated polynucleotide of claim 16, which is RNA.

24. (New) The isolated polynucleotide of claim 16, further comprising a heterologous polynucleotide.

25. (New) The isolated polynucleotide of claim 24, wherein said heterologous polynucleotide encodes a heterologous polypeptide.

26. (New) A method of producing a vector that comprises inserting the isolated polynucleotide of claim 16 into a vector.

27. (New) A vector comprising the isolated polynucleotide of claim 16.

28. (New) The vector of claim 27, wherein said polynucleotide is operably associated with a heterologous regulatory sequence.

29. (New) A host cell comprising the isolated polynucleotide of claim 16.

30. (New) The host cell of claim 29, wherein said isolated polynucleotide is operably associated with a heterologous regulatory sequence.

31. (New) A method of producing a polypeptide that comprises culturing a host cell comprising the isolated polynucleotide of claim 16 under conditions such that the polypeptide encoded by said polynucleotide is expressed, and recovering said polypeptide.

32. (New) A composition comprising the isolated polynucleotide of claim 16.

33. (New) An isolated polynucleotide comprising a nucleotide sequence encoding the mature amino acid sequence encoded by the cDNA clone of ATCC Deposit No. 97729.

34. (New) The isolated polynucleotide of claim 33, comprising a nucleotide sequence encoding the complete amino acid sequence encoded by the cDNA clone of ATCC Deposit No. 97729.

35. (New) The isolated polynucleotide of claim 33, which is DNA.

36. (New) The isolated polynucleotide of claim 33, which is RNA.

37. (New) The isolated polynucleotide of claim 33, further comprising a heterologous polynucleotide.

38. (New) The isolated polynucleotide of claim 37, wherein said heterologous polynucleotide encodes a heterologous polypeptide.

39. (New) A method of producing a vector that comprises inserting the isolated polynucleotide of claim 33 into a vector.

40. (New) A vector comprising the isolated polynucleotide of claim 33.

41. (New) The vector of claim 40, wherein said polynucleotide is operably associated with a heterologous regulatory sequence.

42. (New) A host cell comprising the isolated polynucleotide of claim 33.

43. (New) The host cell of claim 42, wherein said isolated polynucleotide is operably associated with a heterologous regulatory sequence.

44. (New) A method of producing a polypeptide that comprises culturing a host cell comprising the isolated polynucleotide of claim 33 under conditions such that the polypeptide encoded by said polynucleotide is expressed, and recovering said polypeptide.

45. (New) A composition comprising the isolated polynucleotide of claim 33.

46. (New) An isolated polynucleotide molecule comprising a first nucleotide sequence 95% or more identical to a reference nucleotide sequence encoding an amino acid sequence selected from the group consisting of:

(a) amino acids -32 to 365 of SEQ ID NO:2;

(b) ammo acids -31 to 365 of SEQ ID NO:2; and

(c) amino acids 1 to 365 of SEQ ID NO:2.

47. (New) The isolated polynucleotide of claim 46, wherein said second nucleotide sequence is (a).

48. (New) The isolated polynucleotide of claim 46, wherein said second nucleotide sequence is (b).

49. (New) The isolated polynucleotide of claim 46, wherein said second nucleotide sequence is (c).

50. (New) The isolated polynucleotide of claim 46, which is DNA.

51. (New) The isolated polynucleotide of claim 46, which is RNA.

52. (New) The isolated polynucleotide of claim 46, further comprising a heterologous polynucleotide.

53. (New) The isolated polynucleotide of claim 52, wherein said heterologous polynucleotide encodes a heterologous polypeptide.

54. (New) A method of producing a vector that comprises inserting the isolated polynucleotide of claim 46 into a vector.

55. (New) A vector comprising the isolated polynucleotide of claim 46.

56. (New) The vector of claim 55, wherein said polynucleotide is operably associated with a heterologous regulatory sequence.

57. (New) A host cell comprising the isolated polynucleotide of claim 46.

58. (New) The host cell of claim 57, wherein said isolated polynucleotide is operably associated with a heterologous regulatory sequence.

59. (New) A method of producing a polypeptide that comprises culturing a host cell comprising the polynucleotide of claim 46 under conditions such that the polypeptide encoded by said polynucleotide is expressed, and recovering said polypeptide.

60. (New) A composition comprising the isolated polynucleotide of claim 46.

61. (New) An isolated polynucleotide comprising a nucleotide sequence encoding an amino acid sequence 95% or more identical to a reference amino acid sequence selected from the group consisting of:

(a) amino acids -32 to 365 of SEQ ID NO:2;

(b) amino acids -31 to 365 of SEQ ID NO:2; and

(c) amino acids 1 to 365 of SEQ ID NO:2.

62. (New) The isolated polynucleotide of claim 61, wherein said second nucleotide sequence is (a).

63. (New) The isolated polynucleotide of claim 61, wherein said second nucleotide sequence is (b).

64. (New) The isolated polynucleotide of claim 61, wherein said second nucleotide sequence is (c).

65. (New) The isolated polynucleotide of claim 61, which is DNA.

66. (New) The isolated polynucleotide of claim 61, which is RNA.

67. (New) The isolated polynucleotide of claim 61, further comprising a heterologous polynucleotide.

68. (New) The isolated polynucleotide of claim 67, wherein said heterologous polynucleotide encodes a heterologous polypeptide.

69. (New) A method of producing a vector that comprises inserting the isolated polynucleotide of claim 61 into a vector.

70. (New) A vector comprising the isolated polynucleotide of claim 61.

71. (New) The vector of claim 70, wherein said polynucleotide is operably associated with a heterologous regulatory sequence.

72. (New) A host cell comprising the isolated polynucleotide of claim 61.

73. (New) The host cell of claim 72, wherein said isolated polynucleotide is operably associated with a heterologous regulatory sequence.

74. (New) A method of producing a polypeptide that comprises culturing a host cell comprising the polynucleotide of claim 61 under conditions such that the polypeptide encoded by said polynucleotide is expressed, and recovering said polypeptide.

75. (New) A composition comprising the isolated polynucleotide of claim 61.